

Crash Tests

New Car Safety

RENAULT LAGUNA(LHD)

June 2003 on Front+side+head
airbags

Overall Evaluation



Overall score

34.1 out of 37

Variant: SEDAN

Eng: 4cyl 1.8 litre.

Kerb weight: 1390 kg

Category: LUXURY

Vehicles built: 2003

Test by Euro NCAP

Important note: The *left-hand-drive* European model was tested by EuroNCAP. Australasian specifications may vary and therefore models sold in Australasia might provide different levels of protection to those described on this page.

Model History and Safety Features

The RENAULT LAGUNA with a V6 engine was introduced in Australia during 2001. A 4 cylinder version is now available. An advanced seat belt reminder became standard in 2003.

Dual front airbags, side airbags and head-protecting side curtains are standard equipment. ABS brakes are also standard.

The front seat belt buckles are mounted on the seats and the upper anchorages are adjustable. These features improve the fit of the seat belt. Pretensioners are fitted to the front seat belts to reduce slack in the event of a crash. A three point seat belt is fitted to the centre rear seat. This provides better protection than a two point seat belt.

OVERALL EVALUATION : 5 Stars

The RENAULT LAGUNA scored 15.1 out of 16 in the offset crash test. The passenger compartment held its shape well.

The vehicle scored 16 out of 16 in the side impact crash test. It also scored a full 2 points in the optional pole test. This resulted in the Laguna being the first car to be awarded 5 stars by Euro NCAP. The addition of an advanced seat belt reminder in 2003 earned a bonus point.

FRONTAL OFFSET CRASH TEST

Body region scores out of 4 points each: Head/neck 4pts, chest 3.1pts, upper legs 4pts, lower legs 4pts.

The passenger compartment held its shape well. The brake pedal moved rearwards by 25mm and upwards 28mm. The steering wheel hub moved forwards 4mm, upwards 9mm and sideways 13mm. The front ("A") pillar moved 15mm rearwards. The width of the driver's doorway shortened by 15mm. All doors remained closed during the crash. After the crash all doors could be opened with normal effort.

The airbag cushioned the head of the driver and contact was stable. The passenger's head was also cushioned by an airbag.

SIDE IMPACT CRASH TEST

Body region scores out of 4 points each: Head 4pts, chest 4pts, abdomen 4pts, pelvis 4pts.

The vehicle was eligible for an optional pole impact test, since it had head-protecting side airbags and scored four points for the head in the side impact test. The manufacturer decided to go



Offset crash test at 64km/h

ahead with the pole test and the vehicle earned a further two points.

INJURY MEASUREMENTS

Refer to the information sheet "How the test are done"	Offset Crash Test at 64km/h		Side Impact Crash Test at 50km/h
	Driver	Passn	Driver
Head HIC	315	261	51.8
Acceleration (g for 3ms)	41.1	39	27.1
Neck - Shear (kN)	0.16	0.41	-
Tension (kN)	1.11	0.88	-
Extension (Nm)	8.65	10.41	-
Chest Accln (g for 3ms)			-
Compression (mm)	24.55	28.29	13.12
Viscous criterion (m/s)	0.09	0.08	0.06
Abdomen - Force (kN)	-	-	0.64
Pelvis - Force (kN)	-	-	2.39
Upper legs Force (kN)	Left 0.11 Right 0.32	0.03 0.79	
Knee displ (mm)	Left 0.15 Right 0.16	0.02 0.01	
Lower legs Force (kN)	Left 1.19 Right 1.76	1.58 1.36	
Index (Upper/Low)	Left 0.22/0.19 Right 0.37/0.13	0.27/0.22 0.25/0.16	

Bonus points (maximum 5)

Pole Test: 2pts Seat belt reminders: 1pt

Modifiers for offset test scores

Head	No deduction
Chest	No deduction
Upper leg	No deduction
Lower leg	No deduction
Foot score	Score 4 points

Pedestrian rating – tested to earlier protocol



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